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Substitute for Form PTO-1449				Complete if known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary).				Application Number	09/771,328
				Filing Date	January 26, 2001
				First Named Inventor	Menashe Shahar et al.
				Group Art Unit	Not Assigned 2637
				Examiner Name	Not Assigned Young Tsai
Sheet	1	of	4	Attorney Docket Number	23600.00901

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant Of Cited Document	Date of Publication of Cited Document MM- DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	4,010,465		Dodington, et al	03/01/1977	
	A2	4,099,121		Feng	07/04/1978	
	A3	4,385,384		Resbury et al.	05/24/1983	
	A4	5,052,024		Moran, III et al.	09/24/1991	
	A5	5,272,700		Hansen et al.	12/21/1993	
	A6	5,311,550		Fouche, et al	05/10/1994	
	A7	5,377,035		Wang et al.	12/27/1994	
	A8	5,408,340		Tsushima et al.	04/18/1995	
	A9	5,471,045		Felix	11/28/1995	
	A10	5,481,542		Logston et al.	01/02/1998	
	A11	5,481,581		Fang	01/02/1996	
	A12	5,487,090		Maskawa	01/23/1996	

FOREIGN PATENT DOCUMENTS								
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	B1	EP	0021 544 A1		Nuhoff	01/07/1981		
	B2	EP	0025 767 A1		Gregoire et al.	03/25/1981		✓
	B3	CA	2,187,141		Vallee et al.	04/04/1998		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T
7	C1	Golestani, S. (1995) "Network Delay Analysis of a Class of Fair Queueing Algorithms", <i>IEEE Journal on Selected Areas in Communication</i> 13(6):1057-1070	
7	C2	Stiliadis, D. et al. (1998) "Rate-Proportional Servers: A Design Methodology for Fair Queueing Algorithms", <i>IEEE/ACM Transactions of Networking</i> 6(2):164-174	
7	C3	Stiliadis, D. et al. (1998) "Efficient Fair Queueing Algorithms for Packet-Switched Networks", <i>IEEE/ACM Transactions of Networking</i> 6(2):175-185	
7	C4	Data Over Cable Interface Specifications, Cable Modem Termination System-Network Side Interface Specification, SP-CMTS-NSII01-960702 (July 2, 1996) pp. i-13	

Examiner Signature		Date Considered	9/28/05
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	A13	5,510,859		Douglass, et al	04/23/1996	
	A14	5,557,612		Bingham	09/17/1996	
	A15	5,590,409		Sawahashi et al.	12/31/1996	
	A16	5,596,604		Cioffi et al	01/21/1997	
	A17	5,606,664		Brown et al.	02/25/1997	
	A18	5,625,874		Uchida et al.	04/29/1997	
	A19	5,634,206		Reed et al.	05/27/1997	
	A20	5,666,646		McCollum et al.	09/09/1997	
	A21	5,740,525		Spears	01/14/1998	
	A22	5,724,385		Levin, et al	03/03/1998	
	A23	5,734,589		Kestroski et al.	03/31/1998	
	A24	5,752,161		Jantti et al.	05/12/1998	
	A25	5,796,793		Crawford	08/18/1998	
	A26	5,809,090		Buternowsky et al.	09/15/1998	

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21	C5	Data-Over-Cable Service Interface Specifications, Cable Modem to Customer Premise Equipment Interface Specification. SP-CMC1-102-980317 (March 17, 1998) pp. i-40	
21	C6	Data-Over-Cable Service Interface Specifications, Radio Frequency Interface Specification, SP-RFI-104-980724 (July 24, 1998) pp. i-196	
21	C7	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSI-102-990113 (January 13, 1999) pp. i-14	
21	C8	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification Radio Frequency Interface, SP-OSSI-RFI-103-990113 (January 13, 1999) pp. i-29	

Examiner Signature	<i>Young S. En</i>	Date Considered	9/28/05
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		Number	Kind Code ² (if known)			
	A27	5,809,406		Taki et al.	09/15/1998	
	A28	5,809,427		Perreault et al.	08/15/1998	
	A29	5,818,825		Corrigan et al.	10/06/1998	
	A30	5,831,690		Lyons et al.	11/03/1998	
	A31	5,862,451		Grau et al.	01/19/1999	
	A32	5,867,528		Verbuken	02/02/1999	
	A33	5,896,414		Meyer et al.	04/20/1999	
	A34	5,903,568		Jones et al.	05/11/1999	
	A35	5,909,384		Tal et al.	06/01/1999	
	A36	5,937,005		Obuchi et al.	08/10/1999	
	A37	5,940,749		Sunay et al.	08/17/1999	
	A38	5,963,843		Sit et al.	10/05/1999	
	A39	5,963,870		Chheda et al.	10/05/1999	
	A40	5,974,108		Dupont	10/26/1999	
	A41	5,978,855		Metz et al.	11/02/1999	
	A42	5,991,286		Labonte et al.	11/23/1999	
	A43	6,009,310		Motohashi	12/28/1999	
	A44	6,035,008		Kim	03/07/2000	

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21	C9	Data-Over-Cable Service Interface Specifications, Baseline Privacy Interface Specification, SP-BPI-102-990319 (March 19, 1999) pp. i-88	
21	C10	Data-Over-Cable Service Interface Specifications, Baseline Privacy Interface Specification, SP-BPI-102-990731 (July 31, 1999) pp. i-160	

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		Number	Kind Code ² (if known)			
	A45	6,052,408		Trompower et al.	04/10/2000	
	A46	6,072,830		Mondal et al.	06/06/2000	
	A47	6,075,787		Bebeck et al.	06/13/2000	
	A48	6,111,887		Daily et al.	08/29/2000	
	A49	6,112,292		Shahar et al.	08/29/2000	
	A50	6,128,588		Chacon	10/03/2000	
	A51	6,140,911		Fisher et al.	10/31/2000	
	A52	6,141,356		German	10/31/2000	
	A53	6,157,311		Berkovitch	12/05/2000	
	A54	6,160,447		Huang	12/12/2000	
	A55	6,172,970 B1		Ling et al.	01/09/2001	
	A56	6,185,227		Sipola	02/06/2001	
	A57	6,195,697 B1		Bowman-Amuah	02/27/2001	

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21	C11	Data-Over-Cable Service Interface Specifications, Radio Frequency Interface Specification, SP-RFiv1.1-103-991105 (November 5, 1999) pp. i-366	
21	C12	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSiv1.1-D01-991115 (November 15, 1999) pp. i-81	
21	C13	Data-Over-Cable Service Interface Specifications, Operations Support System Interface Specification SP-OSSiv1.1-103-001220 (December 20, 2000) p. ii	

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